QP CODE: 203008	Reg. No:
Q.	11091 1101 1111111111111111111111

## Second B. Pharm (Ayurveda) Degree Regular/Supplementary Examinations March 2024

## **Physical Pharmacy**

Time: 3 Hours Total Marks: 100

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
  Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers

Essays: (2x10=20)

- Define Rheology. Explain the construction, principle and working of any two viscometers.
- 2. What are the methods by which drugs can be degraded? How the drugs are stabilised against such degradation.

Answer briefly: (10x5=50)

- 3. Explain Freundlich adsorption isotherm and its application
- 4. Define Micromeritics. Explain coulter-counter method
- 5. Purification of colloids.
- 6. Discuss the factors influencing physical stability of suspensions
- 7. What is microencapsulation. What are the pharmaceutical applications of Microencapsulation
- 8. Difference between Lyophilic and Lyophobic colloids...
- 9. Stability problems of Emulsion
- 10. Derive the equation for First order rate constant and half-life.
- 11. Capillary rise method for surface tension
- 12. Kinetic properties of Colloids

Short notes: (10x3=30)

- 13. Plastic flow of fluids
- 14. Classify surfactants based on their applications.
- 15. HLB scale
- 16. Plug flow.
- 17. Daltons law for vapour pressure.
- 18. Wetting agent
- 19. Distribution law and its application.
- 20. Gold number.
- 21. Stoke's law
- 22. Advantages of suspension.

\*\*\*\*\*\*\*